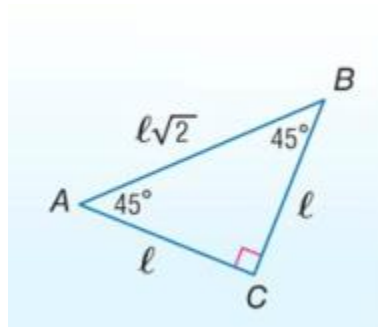


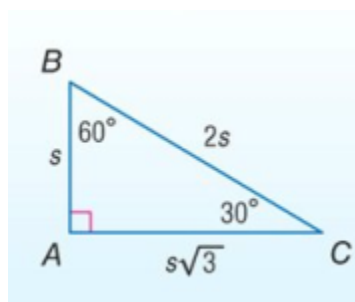
8.3 Special Right Δ

Thm

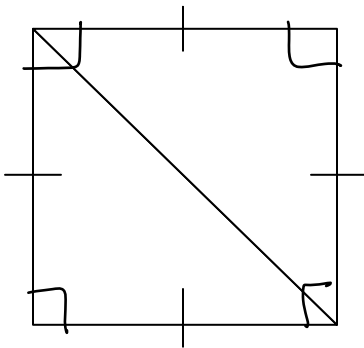
- In a $45^\circ-45^\circ-90^\circ\Delta$



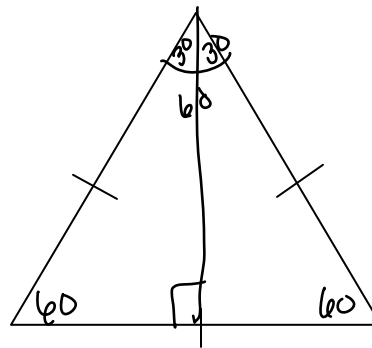
- In a $30^\circ-60^\circ-90^\circ\Delta$



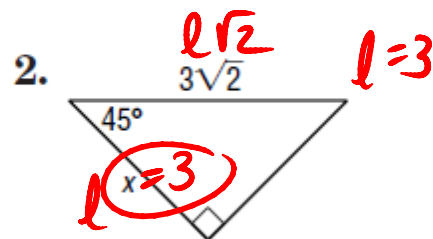
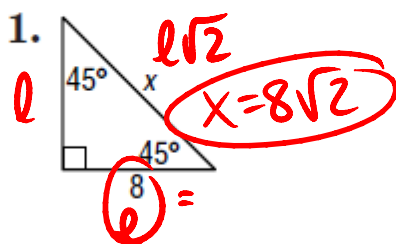
a $45^\circ-45^\circ-90^\circ\Delta$ is created

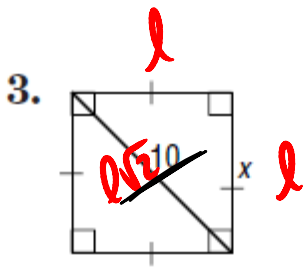


a $30^\circ-60^\circ-90^\circ\Delta$ is created



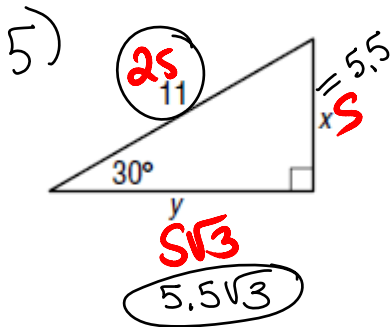
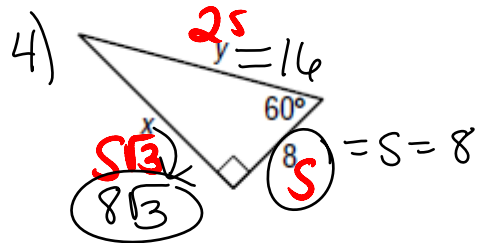
Find x .





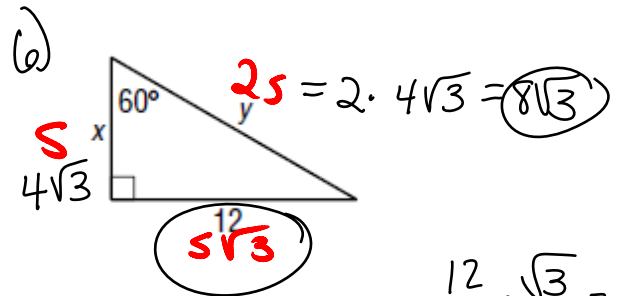
$$\frac{l\sqrt{2}}{\sqrt{2}} = \frac{10}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{10\sqrt{2}}{2} = 5\sqrt{2}$$

$l = 5\sqrt{2}$



$$\frac{2s}{2} = \frac{11}{2}$$

$s = 5.5$



$$\frac{12}{\sqrt{3}} = \frac{s\sqrt{3}}{\sqrt{3}}$$

$$s = 4\sqrt{3}$$



BOOKENDS Shaina designed 2 identical bookends according to the diagram below. Use special triangles to find the height of the bookends.

A. $5\sqrt{3}$

B. 10

C. 5

D. $10\sqrt{3}$

